

### Abstract of the Disclosure

This invention provides monoclonal antibody-producing hybridomas designated 27.F7 and 27.B1. The invention also provides methods for detecting TIP-2 antigen-bearing cancer cells in a sample, detecting the presence of TIP-2 antigen, optionally on the surface of cancer cells, immunohistochemical screening of a tissue section for the presence of TIP-2 antigen bearing cancer cells, diagnosing cancer in a subject, monitoring progression of cancer wherein the cancer cells are TIP-2 antigen-bearing cells, delivering exogenous material to TIP-2 antigen-bearing cancer cells of a human subject, and treating cancer in a human subject. This invention further provides a kit for detecting the presence of TIP-2 antigen-bearing cancer cells. This invention also provides isolated peptides having the amino acid sequences Lys Leu Leu Gly Gly Gln Ile Gly Leu (SEQ ID No:3) and Ser Leu Leu Gly Cys Arg His Tyr Glu Val (SEQ ID NO:4).